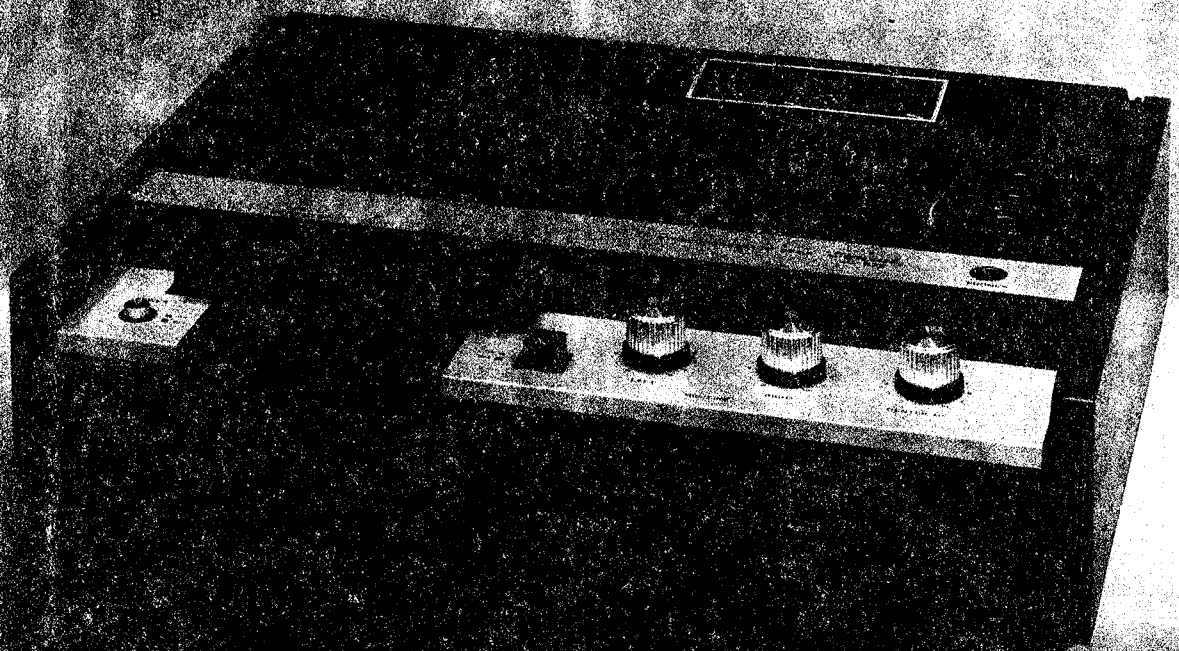
SERVICE MANUAL

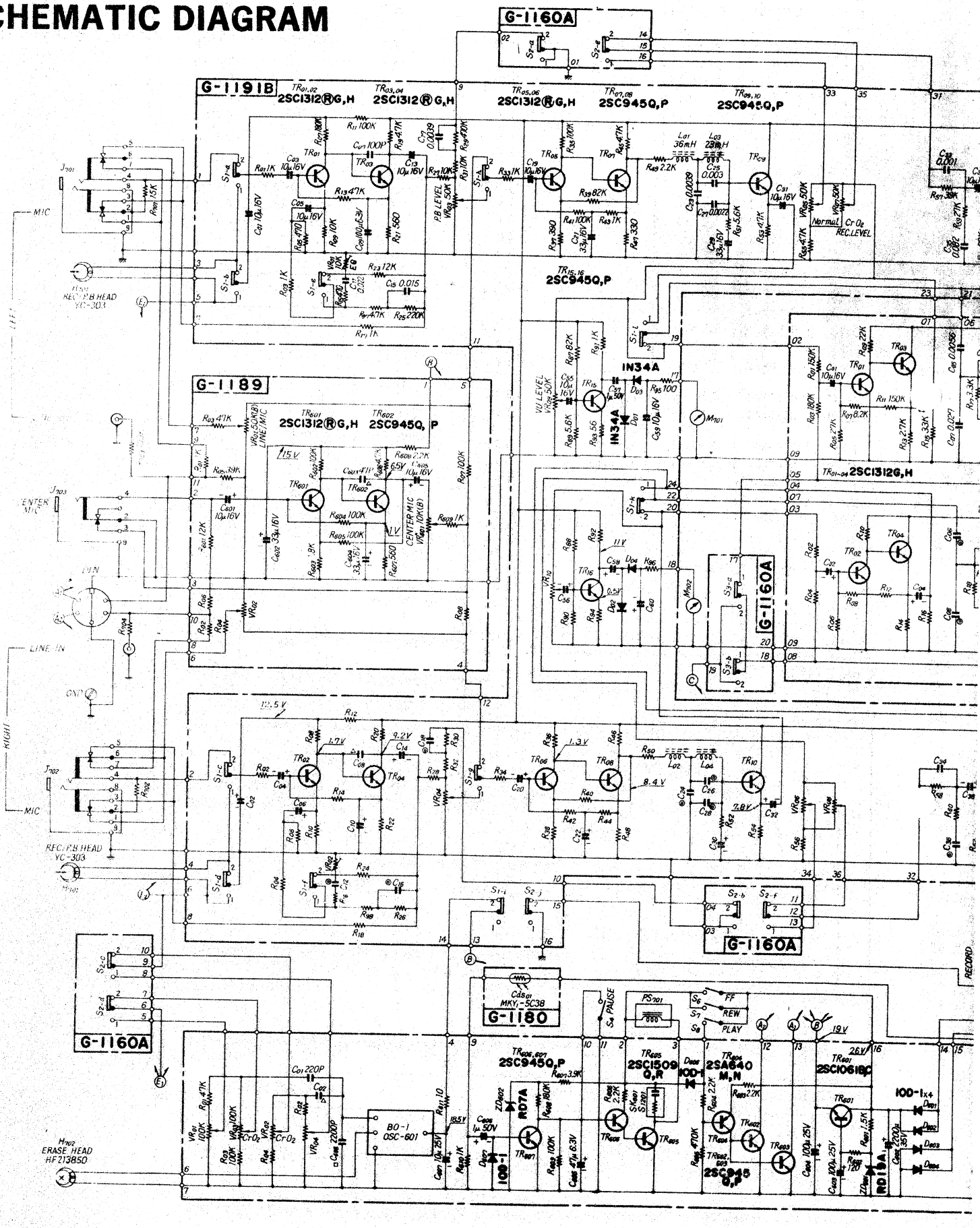
STEREO CASSETTE TAPE DECK

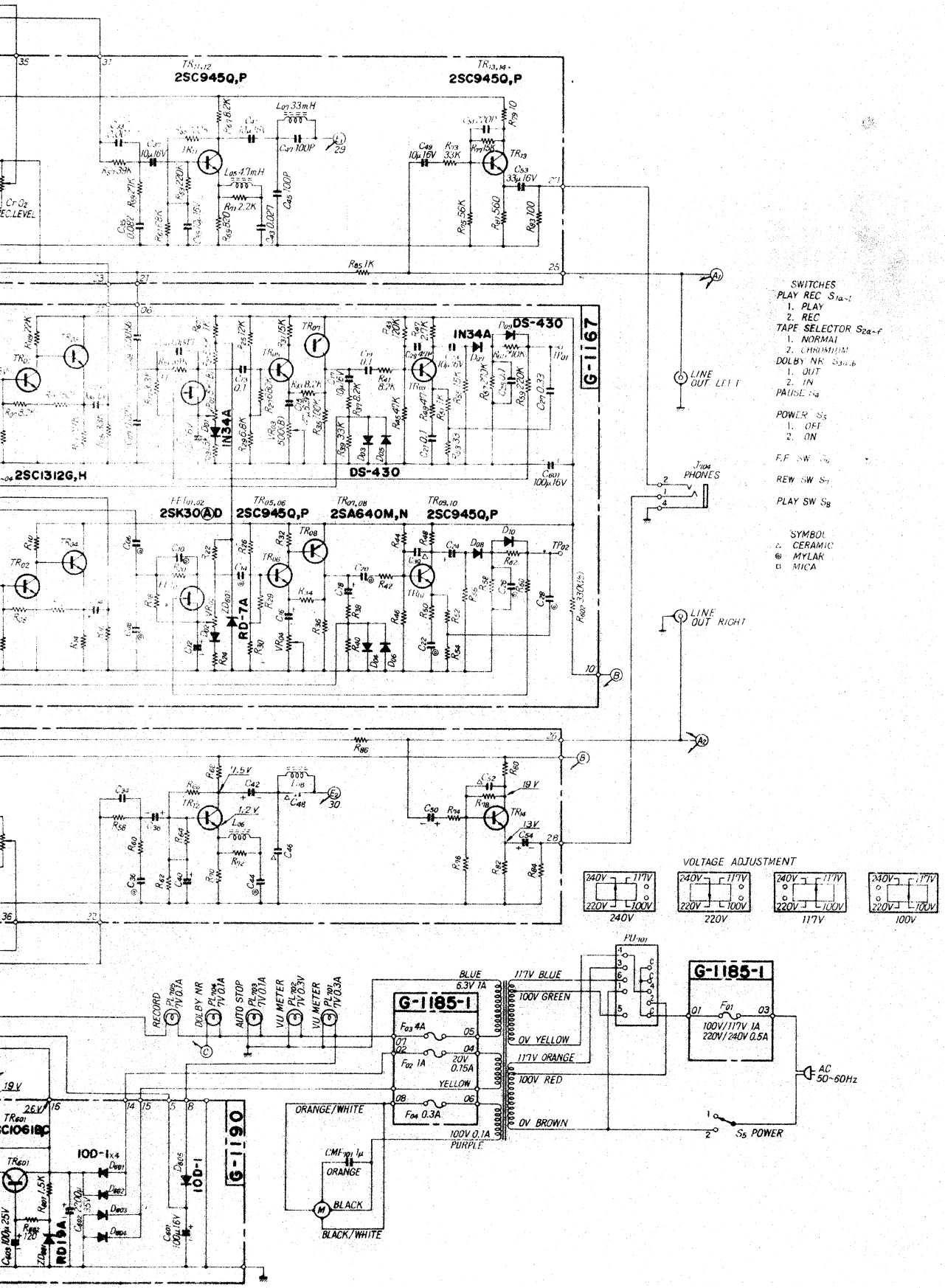
SANSUI SC-636

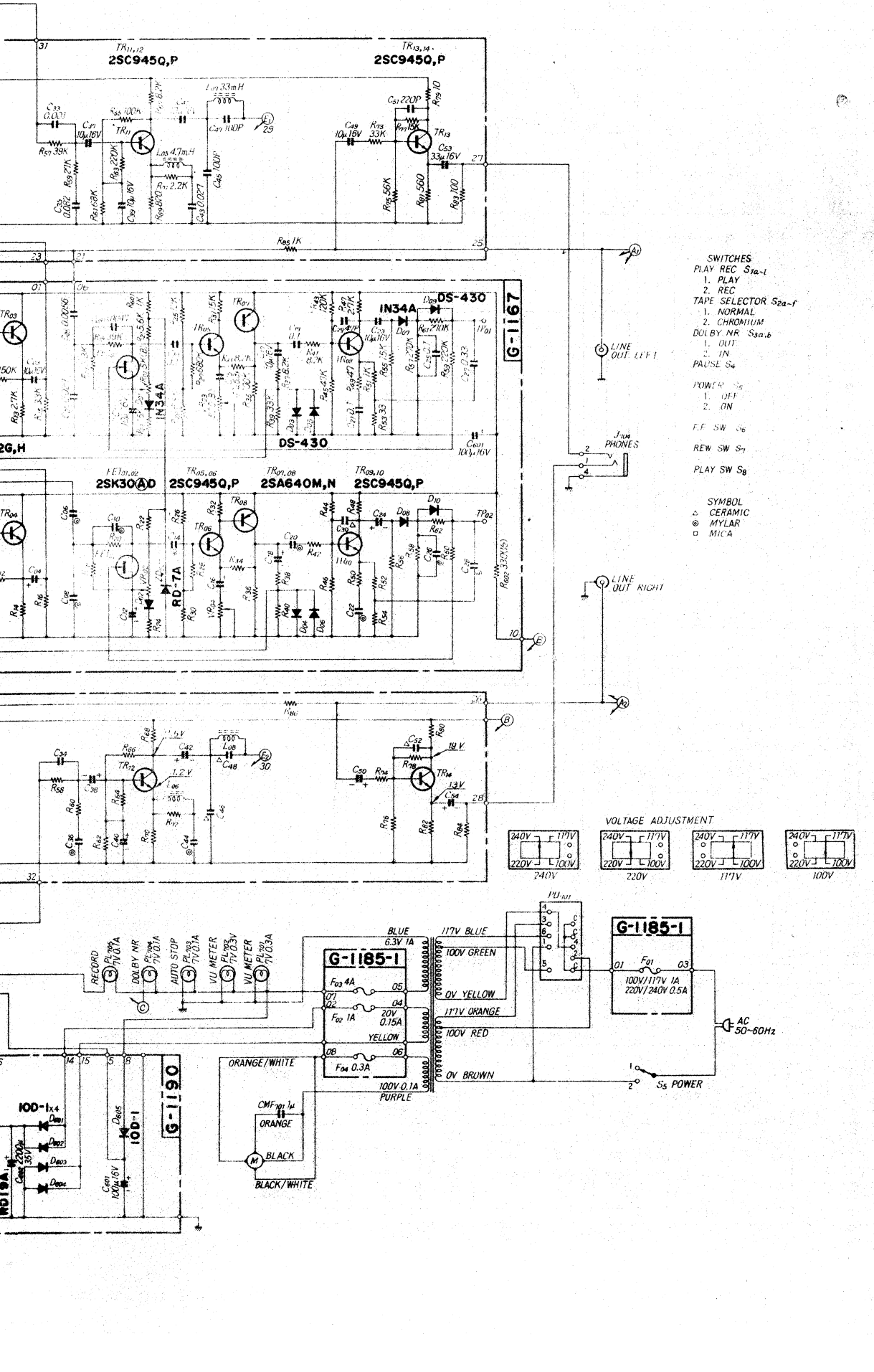


Sansui

7. SCHEMATIC DIAGRAM

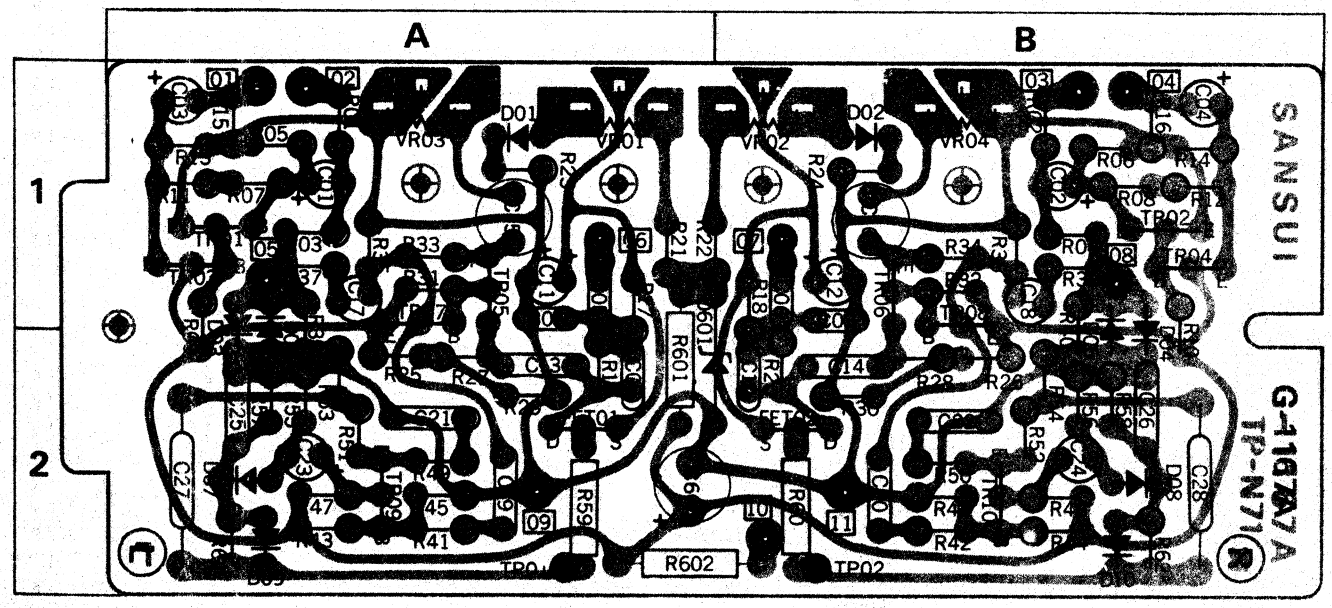



TR11,12
2SC945Q,P
TR13,14
2SC945Q,P
G-1167
DS-430
IN34A
2SC1312G,H
TR01,02
2SK30ⒶD
TR05,06
2SC945Q,P
TR07,08
2SA640M,N
TR09,10
2SC945Q,P
RD-7A
G-1185-1
G-1190
RD15A
2SC1061BC
LINE OUT LEFT
LINE OUT RIGHT
PHONES
SWITCHES
PLAY REC S1a-f
1. PLAY
2. REC
TAPE SELECTOR S2a-f
1. NORMAL
2. CHROMIUM
DOLBY NR S3a-b
1. OUT
2. IN
PAUSE S4
POWER S5
1. OFF
2. ON
F.F SW S6
REW SW S7
PLAY SW S8
SYMBOL
△ CERAMIC
Ⓜ MYLAR
□ MICA
VOLTAGE ADJUSTMENT
240V
220V
117V
100V
RECORD
DOLBY NR
AUTO STOP
VU METER
VU METER
BLUE
6.3V 1A
117V BLUE
100V GREEN
0V YELLOW
117V ORANGE
100V RED
0V BROWN
YELLOW
ORANGE/WHITE
100V 0.1A
PURPLE
ORANGE
BLACK
BLACK/WHITE
100V/117V 1A
220V/240V 0.5A
AC
50~60Hz
S5 POWER


TR11,12
2SC945Q,P
TR13,14
2SC945Q,P
G-1167
DS-430
IN34A
2SK30ⒶD
2SC945Q,P
2SA640M,N
2SC945Q,P
RD-7A
G-1185-1
G-1190
100-1
SWITCHES
PLAY REC S1a-l
1. PLAY
2. REC
TAPE SELECTOR S2a-f
1. NORMAL
2. CHROMIUM
DOLBY NR S3a,b
1. OUT
2. IN
PAUSE S4
POWER S5
1. OFF
2. ON
F.F SW S6
REW SW S7
PLAY SW S8
SYMBOL
△ CERAMIC
◎ MYLAR
□ MICA
LINE OUT LEFT
LINE OUT RIGHT
PHONES
VOLTAGE ADJUSTMENT
240V
220V
117V
100V
BLUE
6.3V 1A
117V BLUE
100V GREEN
0V YELLOW
117V ORANGE
100V RED
0V BROWN
100V 0.1A
PURPLE
YELLOW
ORANGE/WHITE
ORANGE
BLACK
BLACK/WHITE
AC 50~60Hz
S5 POWER
RECORD
DOLBY NR
AUTO STOP
VU METER
VU METER

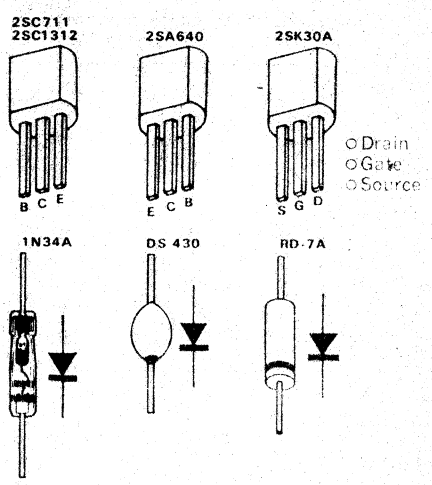
5-3. G-1167 Dolby Circuit Board (Stock No. 7660030 Complete Circuit Board G-1167)

Conductor Side



Parts List

Parts No.	Stock No.	Description				Position
TR01	0306091, 2	2SC1312 Ⓡ (G, H)				1 A
TR02	0306091, 2	2SC1312 Ⓡ (G, H)				1 B
TR03	0306091, 2	2SC1312 Ⓡ (G, H)				1 A
TR04	0306091, 2	2SC1312 Ⓡ (G, H)				1 B
TR05	0305731, 2	2SC711 (E, F)	Transistor			1 A
TR06	0305731, 2	2SC711 (E, F)				1 B
TR07	0300300, 1	2SA640 (M, N)				1 A
TR08	0300300, 1	2SA640 (M, N)				1 B
TR09	0305731, 2	2SC711 (E, F)				2 A
TR10	0305731, 2	2SC711 (E, F)				2 B
FET01	0370104	2SK30A (D)	FET			2 A
FET02	0370104	2SK30A (D)				2 B
D01	0310403	IN34A	Diode			1 A
D02	0310403	IN34A				1 B
D03	0340090	DS-430				1, 2 A
D04	0340090	DS-430				
D05	0340090	DS-430				1, 2 A
D06	0340090	DS-430				1, 2 B
D07	0310403	IN34A				2 A
D08	0310403	IN34A				2 B
D09	0340090	DS-430				2 A
D10	0340090	DS-430				2 B
ZD601	0315170	RD-7A	Zener Diode			1, 2 A
C01	0512100	10μF		16V	E.C.	1 A
C02	0512100	10μF				1 B
C03	0512100	10μF				1 A
C04	0512100	10μF				1 B
C05	0600566	0.0056μF				1 A
C06	0600566	0.0056μF				1 B
C07	0600277	0.027μF	± 5 %	50V	M.C.	1 A
C08	0600277	0.027μF				
C09	0600476	0.0047μF				2 A
C10	0600476	0.0047μF				2 B



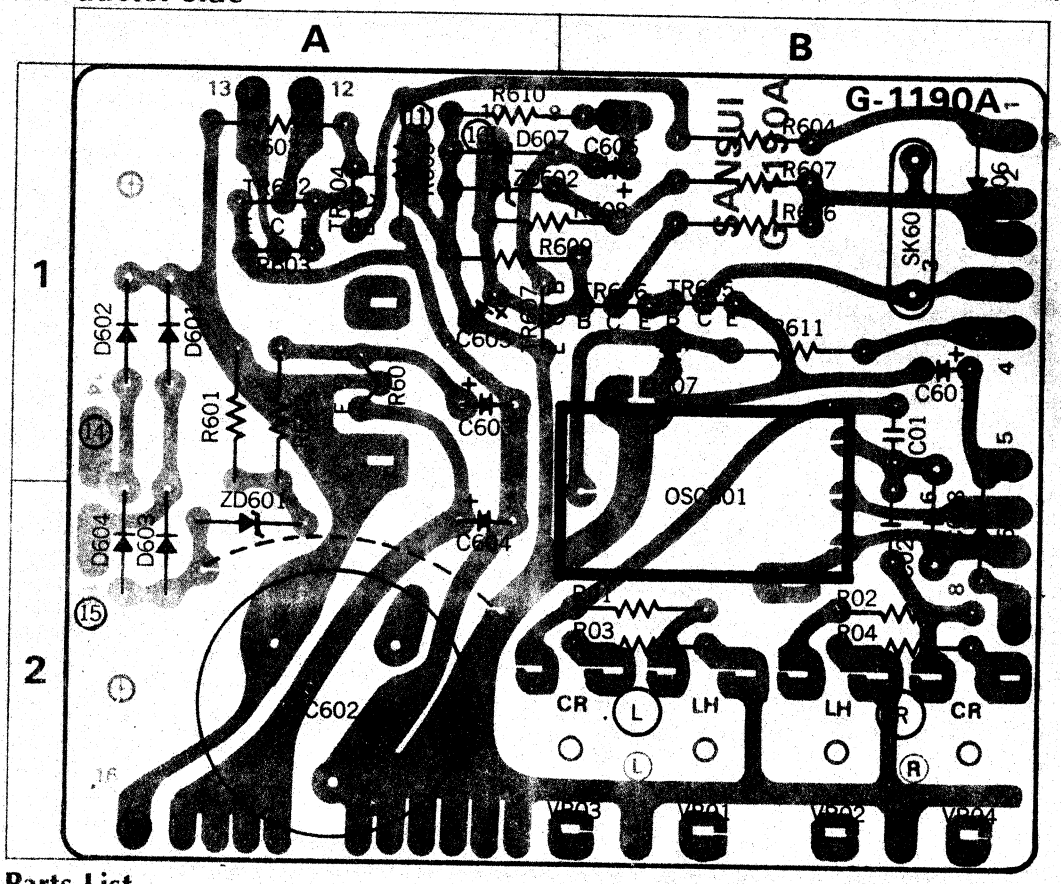
Parts No.	Stock No.	Description				Position
C11	0512100	10μF		16V	E.C.	1 A
C12	0512100	10μF				1 B
C13	0601108	0.1μF	±10%	50V	M.C.	2 A
C14	0601108	0.1μF				2 B
C15	0510470	47μF		6.3V	E.C.	1 A
C16	0510470	47μF				1 B
C17	0512100	10μF		16V	E.C.	1 A
C18	0512100	10μF				1 B
C19	0601108	0.1μF				2 A
C20	0601108	0.1μF	±10%	50V	M.C.	2 B
C21	0600108	0.1μF				2 A
C22	0600108	0.1μF				2 B
C23	0512100	10μF		16V	E.C.	2 A
C24	0512100	10μF				2 B
C25	0601108	0.1μF	±10%	50V	M.C.	2 A
C26	0601108	0,1μF				2 B

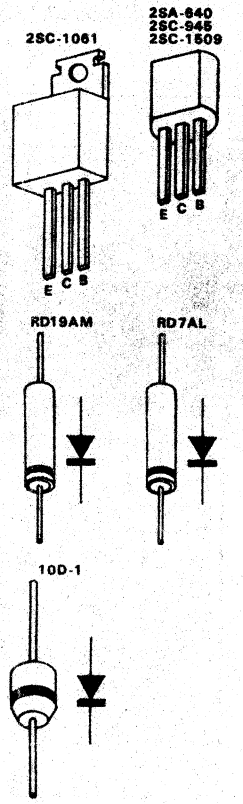
to be continued

5-2. GA-1190 Power Suppry and Auto Stop Circuit Board

Conductor Side

(Stock No. 7690180 Complete Circuit Board G-1190)





Parts List

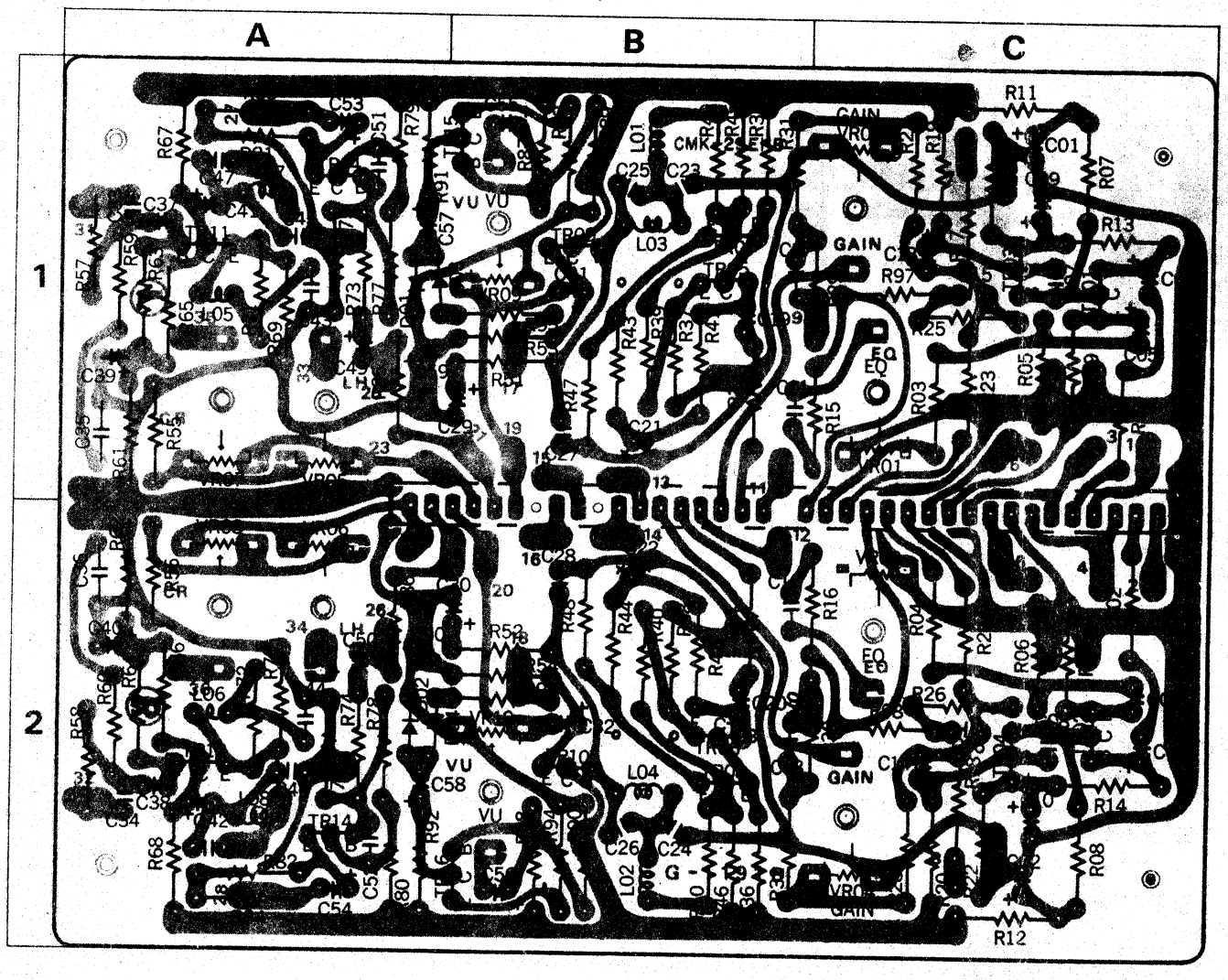
Parts No.	Stock No.	Description		Position
TR_{601}	0305771, 2	2SC1061 (B, C)	Transistor	1 A
TR_{602}	0305951, 2	2SC945 (Q, P)		1 A
TR_{603}	0305951, 2	2SC945 (Q, P)		1 A
TR_{604}	0300300, 1	2SA640 (N, M)		1 A
TR_{605}	0306171, 2	2SC1509 (Q, R)		1 B
TR_{606}	0305951, 2	2SC945 (Q, P)		1 B
TR_{607}	0305951, 2	2SC945 (Q, P)		1 A
D_{601}	0310340	10D-1	Diode	1 A
D_{602}	0310340	10D-1		1 A
D_{603}	0310340	10D-1		2 A
D_{604}	0310340	10D-1		2 A
D_{605}	0310340	10D-1		1, 2 B
D_{606}	0310340	10D-1		1 B
D_{607}	0310340	10D-1		
ZD_{601}	0315380	RD19AM	Zener Diode	2 A
ZD_{602}	0315170	RD7AL		1 A
SK_{601}	0800190	S1201 120Ω + 0.1	Spark Killer	1 B
OSC_{601}	0825020	BO-1	OSC Brock	2 B
VR_{01}	1032520	100kΩ B	Semi Variable Resistor	2 B
VR_{02}	1032520	100kΩ B		2 B
VR_{03}	1032520	100kΩ B		2 B
VR_{04}	1032520	100kΩ B		2 B

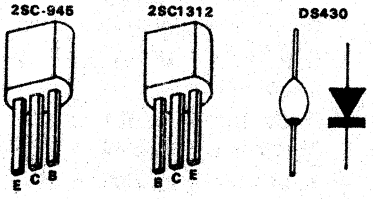
Parts No.	Stock No.	Description			Position
C_{01}	0660221	220 pF	50V	C.C.	1 B
C_{02}	0660221	220 pF			1, 2 B
C_{601}	0512101	100μF	16V	E.C.	1 B
C_{602}	0549005	2200μF	35V	E.C.	2 A
C_{603}	0513101	100μF	25V	E.C.	1 A
C_{604}	0513101	100μF			2 A
C_{605}	0510470	47μF	6.3V	E.C.	1 A
C_{606}	0515109	1μF	50V	E.C.	1 B
C_{607}	0513100	10μF	25V	E.C.	1 B
C_{608}	0649001	2200μF	300V	Mi.C.	1, 2 B
R_{01}	0107473	47kΩ	¼W	C.R.	2 B
R_{02}	0107104	100kΩ			2 B
R_{03}	0107473	47kΩ			2 B
R_{04}	0107104	100kΩ			2 B
R_{601}	0107152	1.5kΩ			1 A
R_{602}	0107121	120Ω			1 A
R_{603}	0107222	2.2kΩ			1 A
R_{604}	0107222	2.2kΩ			1 B
R_{605}	0107474	470kΩ			1 A
R_{606}	0107222	2.2kΩ			1 B
R_{607}	0107392	3.9kΩ			1 B
R_{608}	0107184	180kΩ			1 A, B
R_{609}	0107104	100kΩ			1 A, B
R_{610}	0107102	1kΩ			1 A, B
R_{611}	0107100	10Ω			1 B

5. PARTS LOCATIONS AND PARTS LISTS

5-1. GA-1191 REC/PB Amplifier Circuit Board (Stock No. 7620080 Complete Circuit Board GA-1191)

Conductor Side





6) Change the 1kHz signal from 560mV to 56mV (−20dB).
Push off the PAUSE button and record.
Then, change the signal from 1kHz to 10kHz (56mV) and record.
7) Play back the 1kHz and 10kHz signal, then confirm that difference of output levels between 1kHz and 10kHz is, ±0dB (namely, confirm that the output levels of both signals which must be 56mV on VTVM respectively).
8) If the level of 10kHz signal is under 56mV, as compared with the level of 1kHz, turn VR01 for L-ch and VR04 for R-ch on G-1190 counterclockwise from conductor side.
If it is over 56mV, turn them clockwise from conductor side. When adjusting the above, repeat the steps 6), 7) until the difference of both output levels (1kHz and 10kHz) are 0dB (56mV) on VTVM.

3-5-2. Setting TAPE SELECTOR switch to CHROMIUM

1) Perform step 1) through 3) of 3-5-1.
2) Push on the PAUSE button and set the unit in the record mode using a Chromium test tape (SCT-FCR).
3) Perform steps 5), 6) and 7) of 3-5-1.
4) If the level of 10kHz signal is under 56mV (0dB) on VTVM, turn VR03 for L-ch and VR02 for R-ch on G-1190 counterclockwise from conductor side.
If it is over 56mV, turn them clockwise from conductor side. When adjusting above, repeat the step 3) until the difference of output levels (1kHz and 10kHz) are 0dB (56mV) on VTVM.

3-6. REC/PB Level Adjustment (See Fig. 3-3)

3-6-1. Setting TAPE SELECTOR switch to NORMAL

1) Set the MIC/LINE LEVEL volumes to maximum.
2) Connect a VTVM to the LINE OUTPUT terminals (L, R-ch).
3) Supply the 1kHz signal from an audio signal generator to the LINE INPUT terminals (L, R-ch).
4) Push on the PAUSE button and set the unit in the record mode using a Normal test tape (SCT-FCB6).
5) Adjust the level volume for obtaining 56mV on the VTVM.
6) Push off the PAUSE button, then record the 1kHz signal.
7) Play back the 1kHz signal and confirm the output level of each channel which must be 56mV on VTVM.
8) If the indication of output level on each channel is under 56mV, turn VR05 for L-ch and VR06 for R-ch on G-1191 counterclockwise or if it is over 56mV, turn them clockwise from conductor side so that the output level 56mV may be obtained.
Repeat the above steps 6), 7) a few times until the indication on VTVM will be exactly 56mV.

Fig. 3-2

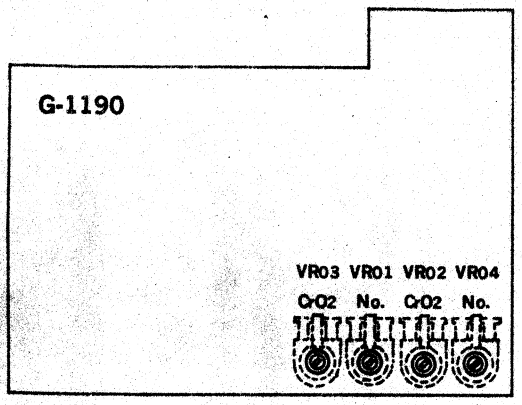


Fig. 3-3